

Radio-Diffusive Particulate Clouds Coupled with MASERs for Prevention of Triangulation of Covert Ground-Ground and Ground-Space Communications

Introduction

Even given the advent of true entanglement-based communication, it may not always be practical or desirable to field the experimental communicators in contested environments. The capture of such an advanced technology by an adversary would risk the compromise of the manufacturing process that makes possible the communicators. In any case, early models only use entanglement for key distribution purposes and lack sufficient bandwidth for transmission of whole messages, at least for now.

Abstract

This means that a methodology is required for disguising the location of radio transmission sources for critical communications that need to be transmitted from contested areas where adversary radio triangulation devices are ubiquitous (cell towers fulfill this function of signals intercept and triangulation for most intents and purposes.)

Just as microscopic listening devices may be disseminated in airborne clouds as delineated in a publication a number of months ago, it stands to reason that such plumes could be used to carry particulates that serve the function of reflecting focused microwave energy in all directions so that a transmission may be beamed to a plume from a great distance using focused energy and would seem to be coming from the center of the plume from the perspective of adversary eavesdropping equipment.

Conclusion

For an operative behind enemy lines, this system could be employed by opening a window and spraying an aerosol disguised as hairspray out the window and waiting for a period of time for the invisible plume to be carried in a known direction, sufficiently distant to hide the signal source.